This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Currently amended) A stent deployment device for allowing a user to deploy

a stent in an anatomical lumen of a patient, the stent deployment device comprising:

a stabilizing member comprising a support member configured to abut against a

palm of a hand of the user;

a longitudinally extending outer tubular member having distal and proximal ends,

the distal end configured to receive the stent such that the stent is slidably disposed in

the outer tubular member;

a longitudinally extending inner tubular member having distal and proximal ends,

the distal end of the inner tubular member comprising a tip, the inner tubular member

coupled with the stabilizing support member and at least a portion of the inner tubular

member disposed within the outer tubular member such that the inner tubular member

is longitudinally and axially displaceable relative to the outer tubular member; and

a deployment mechanism coupled with the outer tubular member and configured

to allow staged release of the stent, the deployment mechanism comprising

a first release member to for at least partially move moving the outer

tubular member proximally and longitudinally relative to the inner tubular member

from a first position to a second position, and

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a second release member positioned proximal to the first release member

and operably connected to the first release member for moving to move the outer

tubular member proximally and longitudinally relative to the inner tubular member

from the second position to a third position,

wherein the first release member and the second release member are

configured to be serially retracted to provide staged release of the stent such that

retracting the second release member moves the first release member and the

outer tubular member proximally and longitudinally relative to the inner tubular

member from a first position to a second position to partially deploy the stent, and

wherein subsequent retraction of the first release member moves the outer

tubular member proximally and longitudinally relative to the inner tubular member

from the second position to a third position to fully deploy the stent.

2. (Cancelled)

3. (Cancelled)

4. (Currently amended) The stent deployment device as recited in claim 1,

further comprising a safety member for preventing movement of [[a]] the first release

member and the outer tubular member toward the support member beyond a

predetermined position of the outer tubular member relative to the inner tubular

member.

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5. (Currently amended) The stent deployment device as recited in claim 4,

wherein movement of the first release member from [[a]] the first position of the outer

tubular member relative to the inner tubular member to the predetermined position is

adapted to exposes at least a portion of the stent.

6. (Original) The stent deployment device as recited in claim 5, wherein the

portion of the stent exposed is from about 5% to about 95% of the length of the stent.

7. (Previously presented) The stent deployment device as recited in claim 4,

wherein the safety member comprises a removable tab disposed between the support

member and the outer tubular member.

8. (Original) The stent deployment device as recited in claim 1, further

comprising an elongated viewing device having a proximal end and distal end, the

viewing device slidably disposed in the outer tubular member such that the proximal end

of the viewing device extends outwardly of the proximal end of the outer tubular

member.

9. (Original) The stent deployment device as recited in claim 8, further

comprising means for releasably securing the viewing device with respect to the outer

tubular member.

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10. (Currently amended) The stent deployment device as recited in claim 9, wherein the viewing device securing means is associated with the stabilizing support member.

11. (Cancelled)

12. (Currently amended) The stent deployment device as recited <u>in</u> claim 10, wherein the viewing device securing means comprises a clamp head threadably received in the <u>stabilizing support</u> member.

13. (Currently amended) A stent delivery system for use in an anatomical lumen

of a patient, the stent delivery system comprising:

a stabilizing member comprising a support member configured to abut against a

palm of a hand of the user;

a longitudinally extending outer tubular member having distal and proximal ends,

the distal end configured to receive the stent such that the stent is slidably disposed in

the outer tubular member;

a longitudinally extending inner tubular member having distal and proximal ends,

the distal end of the inner tubular member comprising a tip, the inner tubular member

coupled with the stabilizing support member and at least a portion of the inner tubular

member disposed within the outer tubular member such that the inner tubular member

is longitudinally and axially displaceable relative to the outer tubular member;

a stent having a proximal end and a distal end and slidably disposed in within a

distal portion of the outer tubular member and around a distal portion of the inner

tubular member; and

a deployment mechanism coupled with the outer tubular member and configured

to allow staged release of the stent, the deployment mechanism comprising

a first release member to for at least partially move moving the outer

tubular member proximally and longitudinally relative to the inner tubular member

from a first position to a second position without initially disengaging a safety

mechanism, and

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a second release member positioned proximal to the first release member

and operably connected to the first release member for moving to move the outer

tubular member proximally and longitudinally relative to the inner tubular member

from the second position to a third position,

wherein the tip of the inner tubular member engages the proximal end of

the stent for advancing the stent toward the distal end of the outer tubular

member as the first and second release members move[[s]] toward the support

member, and

wherein the first release member and the second release member are

configured to be serially retracted to provide staged release of the stent such that

retracting the second release member moves the first release member and the

outer tubular member proximally and longitudinally relative to the inner tubular

member from a first position to a second position to partially deploy the stent, and

wherein subsequent retraction of the first release member moves the outer

tubular member proximally and longitudinally relative to the inner tubular member

from the second position to a third position to fully deploy the stent.

(Previously presented) The stent delivery system as recited in claim 13,

wherein a portion of the stent is exposed outwardly of the distal end of the outer tubular

member.

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15. (Previously presented) The stent delivery system as recited in claim 14,

wherein the stent is deployed from the distal end of the outer tubular member.

16. (Currently amended) The stent delivery system as recited in claim 13,

further comprising a safety member for preventing movement of [[a]] the first release

member and the outer tubular member toward the support member beyond a

predetermined position of the outer tubular member relative to the inner tubular

member.

17. (Currently amended) The stent delivery system as recited in claim 16,

wherein movement of the first release member from [[a]] the first position of the outer

tubular member relative to the inner tubular member to the predetermined position

exposes at least a portion of the stent outwardly of the distal end of the outer tubular

member.

18. (Original) The stent delivery system as recited in claim 17, wherein the

portion of the stent exposed is from about 5% to about 95% of the length of the stent.

19. (Previously presented) The stent delivery system as recited in claim 16,

wherein the safety member comprises a removable tab disposed between the support

member and the outer tubular member.

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20. (Currently amended) The stent delivery system as recited in claim [[1]]13,

further comprising an elongated viewing device having a proximal end and distal end,

the viewing device slidably disposed in the outer tubular member such that the proximal

end of the viewing device extends outwardly of the proximal end of the outer tubular

member.

21. (Original) The stent delivery system as recited in claim 20, further

comprising means for releasably securing the viewing device with respect to the outer

tubular member.

22. (Currently amended) The stent delivery system as recited in claim 21,

wherein the viewing device securing means is associated with the stabilizing support

member.

23. (Cancelled)

24. (Currently amended) The stent deployment device as recited in claim 22,

wherein the viewing device securing means comprises a clamp threadably received in

the stabilizing support member.

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of a patient, the method of stent delivery comprising the steps of:

providing a delivery device including a stabilizing member comprising

a support member configured to abut against a palm of a hand of the user,

a longitudinally extending outer tubular member having distal and proximal

ends, the distal end configured to receive the stent such that the stent is slidably

disposed within the outer tubular member,

a longitudinally extending inner tubular member having distal and proximal

ends, the distal end of the inner tubular member comprising a tip, the inner

tubular member coupled with the stabilizing support member and at least a

portion of the inner tubular member disposed within the outer tubular member

such that the inner tubular member is longitudinally and axially displaceable

relative to the outer tubular member, and

a deployment mechanism coupled with the outer tubular member and

configured to allow staged release of the stent, the deployment mechanism

comprising

a first release member to for at least partially move moving the

outer tubular member proximally and longitudinally relative to the inner

tubular member from a first position to a second position without initially

disengaging a safety mechanism, and

a second release member positioned proximal to the first release

member and operably connected to the first release member for moving to

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move the outer tubular member proximally and longitudinally relative to

the inner tubular member from the second position to a third position.

wherein the first release member and the second release member

are configured to be serially retracted to provide staged deployment of the

stent,

slidably disposing a stent having a proximal end and a distal end in within a distal

portion of the outer tubular member and around a distal portion of the inner tubular

member, wherein the tip of the inner tubular member engages the proximal end of the

stent to advance the stent toward the distal end of the outer tubular member as the

outer tubular member moves toward the support member relative to the inner tubular

member; and

positioning the distal portion of the outer tubular member within the anatomical

lumen of the patient at a desired location;

advancing retracting the second release member and the outer tubular member

relative to the inner tubular member in a direction toward the support member to thereby

retract the first release member and the outer tubular member relative to the inner

tubular member from a first position to a second position to partially deploy the distal

end of the stent; and

retracting the first release member in a direction toward the support member and

toward the second release member to thereby retract the outer tubular member relative

to the inner tubular member from the second position to a third position to completely

deploy the stent in the anatomical lumen of the patient

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wherein the tip of the inner tubular member engages the proximal end of the

stent for advancing the stent toward the distal end of the outer tubular member as the

first release member moves toward the support member.

26. (Previously presented) The method of stent delivery as recited in claim 25,

wherein a portion of the stent is exposed outwardly of the distal end of the outer tubular

member.

27. (Previously presented) The method of stent delivery as recited in claim 26,

wherein the stent is deployed from the distal end of the outer tubular member.

28. (Currently amended) The method of stent delivery as recited in claim 25,

further comprising the step of preventing movement of a the first release member and

the outer tubular member toward the support member beyond a predetermined position

of the outer tubular member relative to the inner tubular member.

29. (Currently amended) The method of stent delivery as recited in claim 25,

further comprising the steps of

providing an elongated viewing device having a proximal end and distal end, and

slidably disposing the viewing device in the outer tubular member such that the

proximal end of the viewing device extends outwardly of the proximal end of the outer

tubular member.

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30. (Currently amended) The stent delivery system as recited in claim 29,

further comprising the step of releasably securing the viewing device with respect to the

outer tubular member.

31. (Previously presented) The stent deployment device as recited in claim 1,

wherein the deployment mechanism is operable without initially disengaging a safety

mechanism.